Department of Agriculture

Soil Conservation Service

Boise, Idaho

Idaho Water Supply Outlook

May 1, 1986

Foreward

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado (New Mexico)	2490 West 26th Ave., Denver, CO 80211
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	50 South Virginia Street, Third Floor, Reno, NV 89505
Oregon	1220 Southwest 3rd Ave., 16th Floor, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82602

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 98502; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Saskatchewan, and N.W.T. — The Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta, T3C 1A6.

Idaho
Water Supply Outlook

and

Federal — State — Private
Cooperative Snow Surveys

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STREAMFLOW PROSPECTS
IDAHO

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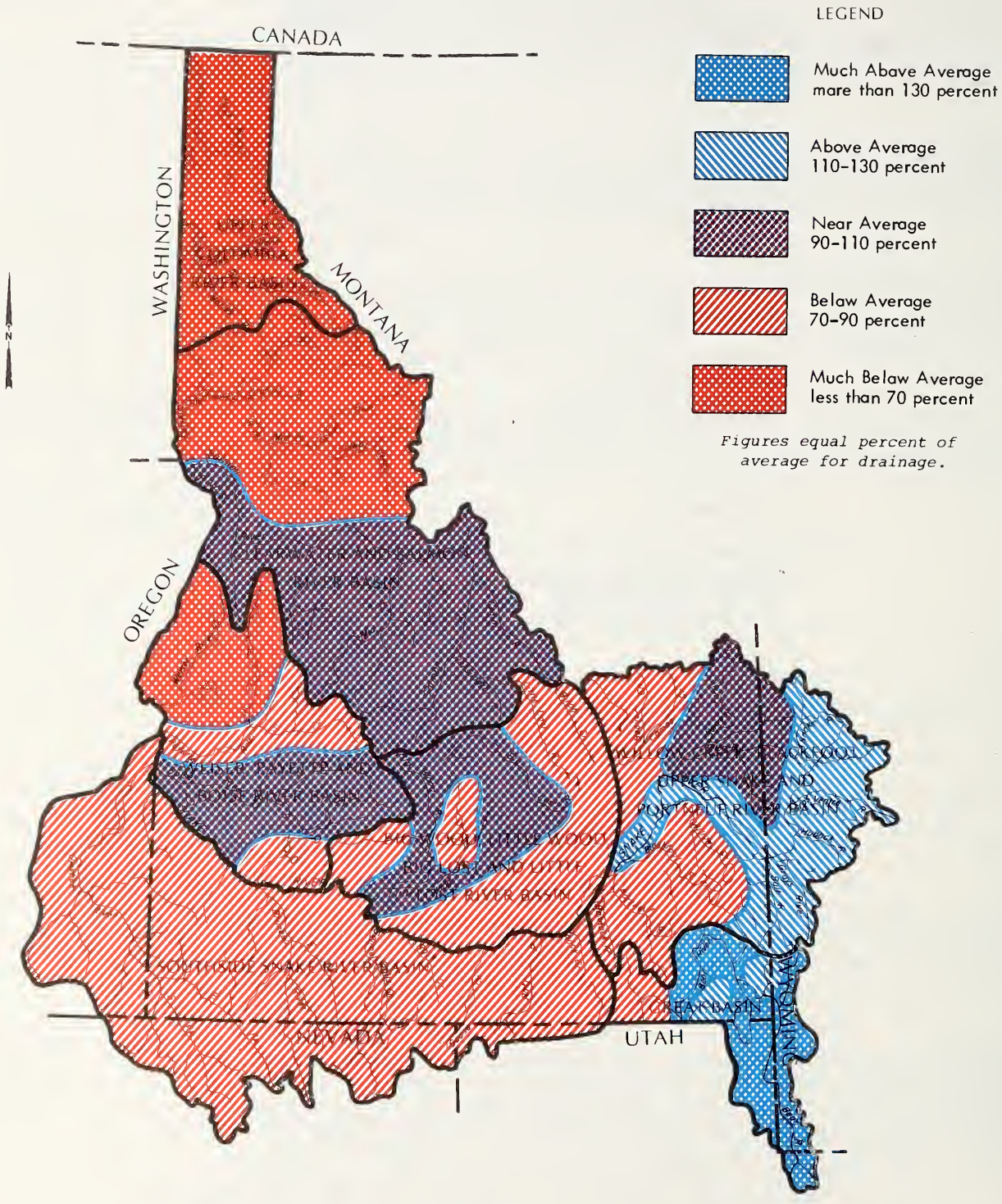
0 50 100 150 KM



JULY 1985 4-R-39312

GENERAL OUTLOOK

SUMMARY:

SNOWMELT CONTINUES TO BE ABOUT 2 WEEKS AHEAD OF NORMAL OVER MOST OF THE STATE. GENERALLY SPEAKING, LOW ELEVATION SNOWPACKS ARE NOW DEPLETED, MID-ELEVATION PACKS ARE BELOW TO WELL BELOW NORMAL, AND HIGH ELEVATION PACKS ARE BELOW NORMAL IN NORTH IDAHO, AND NEAR OR ABOVE NORMAL IN THE SOUTHERN AND EASTERN PARTS OF THE STATE. SNOWPACK CONDITIONS AND PROSPECTIVE STREAMFLOWS RANGE FROM WELL BELOW NORMAL IN THE PANHANDLE TO WELL ABOVE NORMAL IN SOUTHEASTERN IDAHO. IRRIGATION WATER SUPPLIES SHOULD BE ADEQUATE OVER MOST OF THE STATE. HOWEVER, MID AND LATE SUMMER FLOWS ON STREAMS WITHOUT STORAGE FACILITIES COULD BE LOW DUE TO THE EARLY SNOWMELT CONDITIONS.

SNOWPACK:

Snowpack conditions as of May 1 vary widely over the state, ranging from well below normal in the northern Idaho Panhandle to well above normal in the extreme southeastern part of Idaho. Measurements taken at selected sites near May 1 show northern Idaho snowpacks range from only 44% of average on the Coeur d'Alene drainage to 73% on the Selway drainage. Snowpacks in the central Idaho mountains range from 68% of average on the N. Fork Payette to 124% on the Big Lost River watershed. One exception is the Weiser drainage where snowpack conditions are only 36% of average. Watersheds on the south side of the Snake River report snowpacks ranging from 64% of average on the Owyhee to 103% on the Goose-Trapper Creek drainage, south of Burley. Eastern and southeastern Idaho snowpacks are generally above to well above normal, ranging from 104% of normal in the Henry's Fork basin to 161% of normal on the Montpelier Creek drainage near Montpelier. Generally speaking, low elevation snowpacks are completely melted and mid-elevation snowpacks are continuing to melt well ahead of normal. Most mid-elevation packs are nearly melted out in northern Idaho, and over 50% depleted in the rest of the state. Higher elevation packs are below normal on all drainages north of the Salmon River, above normal on the central and eastern Idaho watersheds, well above normal in the extreme southeastern part of the state, and near or slightly below normal on watersheds south of the Snake.

PRECIPITATION:

April was a typical spring month of warm late spring type weather followed by several days of unusually cold temperatures. This type of varied weather pattern persisted throughout the month. Temperatures averaged near normal for April over all areas of the state. There were periods of 80 degree readings but these were offset by several days where temperatures rose only into the 50's. Low temperatures ran the same pattern. Precipitation was either well above normal or well below for the month. The Panhandle and the southern third of the state recorded above normal amounts. The highest totals were observed in the southeast corner, where Pocatello had 220 percent of normal precipitation. The north central and the central portions of Idaho were below normal for April. Percentages were generally in the 65 to 75 percent of normal range.

RESERVOIRS:

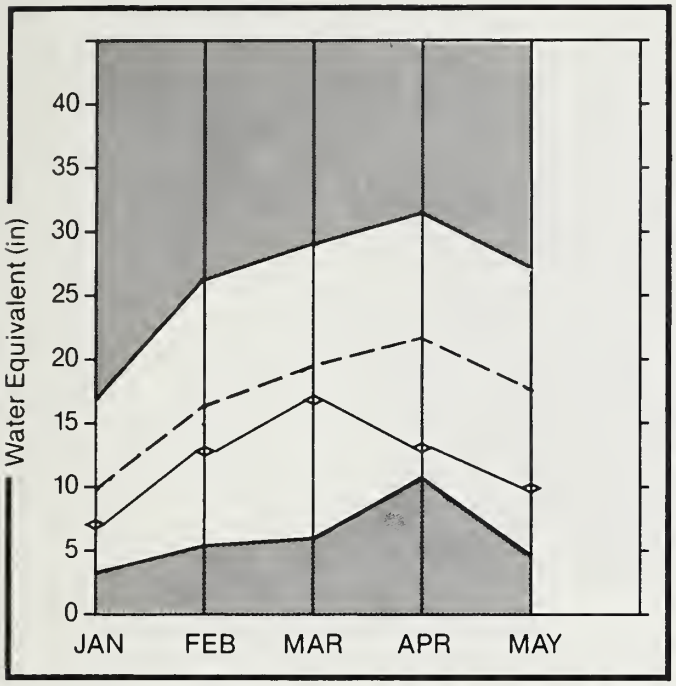
Most reservoirs report near to well above normal storage conditions for May 1, ranging from 90% of normal in Arrowrock Reservoir to 205% in Salmon Falls Creek Reservoir. Several exceptions to this are Coeur d'Alene Lake at only 56% of normal storage content, Jackson Lake, Wyoming at 18%, and Palisades Reservoir at 73% of normal. Statewide, reservoir storage is reported at 109% of average in 20 key reservoirs.

STREAMFLOW:

In general, streamflows during April continued to be above to well above normal over much of the state with some streams reaching flood stage in eastern and southeastern Idaho. Streams in northern and extreme southern Idaho have already reached their peak discharges for the snowmelt season. Most lower elevation basins in central and eastern Idaho, such as the Weiser, Little Wood, Willow Creek, and Portneuf have also peaked for the season while the higher elevation basins are expected to peak by late May or early June. May-July seasonal volume forecasts vary widely over the state, ranging from well below average in northern Idaho to well above normal in the extreme southeastern corner of the state. May-July and May-September flows on streams from the Clearwater north are expected to range from only 48% of average on the Coeur d'Alene at Enaville to 62% on the Clearwater at Orofino. Streamflows in central Idaho and tributaries on the south side of the Snake are forecast to range from 68% on the Payette at Cascade to 106% on the Boise near Boise. Eastern and southeastern Idaho streamflows should range from 98% on the Henry's Fork near Ashton to 149% on the Bear at Harer for the same periods. One exception being the Portneuf which is forecast at only 80% of normal. Good reservoir storage coupled with anticipated runoff for the remainder of the season should provide adequate irrigation water supplies over most of the central and southern parts of the state. Late summer flows, however, could be low due to the early runoff.

Upper Columbia Basin

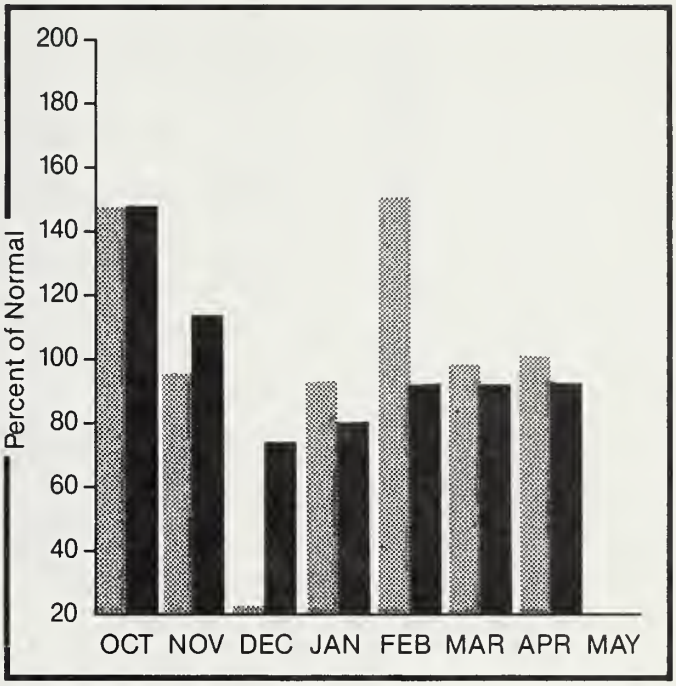
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack conditions are very low throughout the basin ranging from only 44 to 60% of normal. May-July seasonal volume streamflows are forecast to be well below normal, ranging from 48 to 61%. Peak flows have now passed and streams are rapidly receding to lower flows with most streams expected to return to low flow conditions by mid June.

For more information contact your local Soil Conservation Service office.

UPPER COLUMBIA RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
KOOTENIA at Leonia *	MAY-SEP	7838.0	6250.0	79	99	61				
	MAY-JUL	6734.0	5320.0	79	98	60				
CLARK FORK at White Horse Rapids *	MAY-SEP	11930.0	7920.0	66	80	52				
	MAY-JUL	10710.0	7040.0	65	80	52				
PEND OREILLE LAKE inflow *	MAY-SEP	13140.0	8610.0	65	81	51				
	MAY-JUL	11860.0	7730.0	65	80	50				
PRIEST RIVER at Priest *	MAY-SEP	707.0	430.0	60	91	31				
SPOKANE at Post Falls *	MAY-SEP	1977.0	1010.0	51	73	29				
	MAY-JUL	1884.1	956.0	50	73	29				
ST. JOE at Calder	MAY-SEP	1019.4	547.0	53	76	32				
	MAY-JUL	950.5	505.0	53	75	31				
COEUR D' ALENE at Enaville	MAY-SEP	554.0	261.0	47	94	0				
	MAY-JUL	515.1	240.0	46	94	20				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
HUNGRY HORSE	3451.0	2729.0	2067.0	1982.0
FLATHEAD LAKE	1791.0	944.8	845.0	932.7
PEND OREILLE	1155.1	1014.0	718.0	505.2
NOXON RAPIDS	335.0	328.5	138.0	250.1
COEUR D'ALENE	225.1	153.6	214.0	275.1
PRIEST LAKE	72.0	44.0	---	---

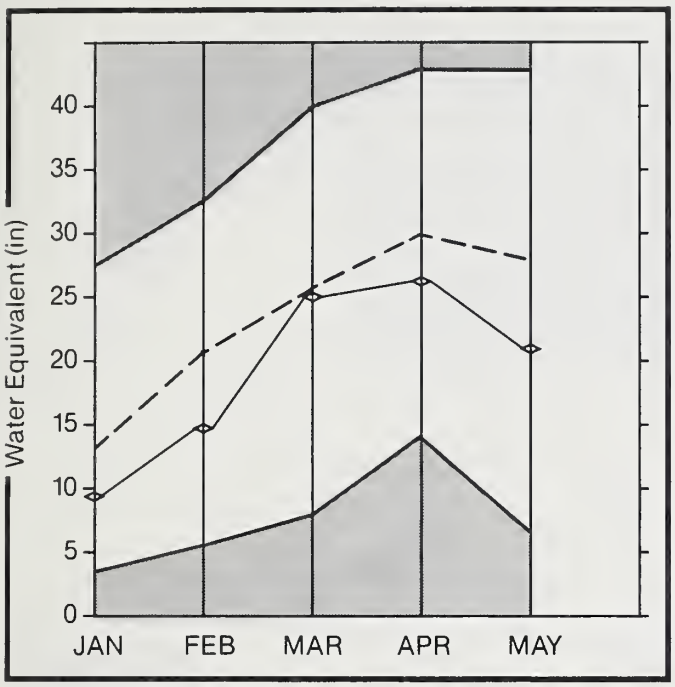
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Kootenai ab Bonners Ferry	51	77	65
Pend Oreille River	151	85	70
Clark Fork River	102	91	76
Priest River	5	51	45
Rathdrum Creek	1	74	69
Hayden Lake	0	0	0
Coeur d'Alene River	4	34	38
St. Joe River	4	57	57
Spokane River	8	47	50
Palouse River	0	0	0

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Clearwater and Salmon River Basin

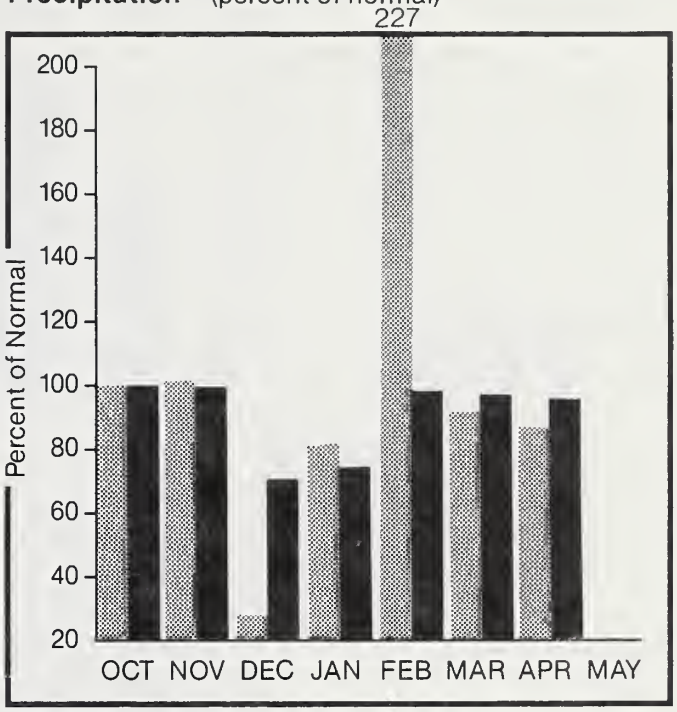
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Basinwide snowpack conditions on the Clearwater and lower tributaries to the Salmon are below to well below normal and near to slightly above normal on the Salmon above Salmon. May-July streamflows are expected to be below or near normal, ranging from 60% on the Inflow to Dworshak to 104% on the Salmon near Salmon. Flows are expected to recede much earlier than normal on both basins and river floaters with late floating dates may encounter very low flows, particularly on the tributaries to the Clearwater.

For more information contact your local Soil Conservation Service office.

CLEARWATER AND SALMON RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
CLEARWATER at Orofino	MAY-SEP	4338.0	2680.0	61	81	43				
CLEARWATER at Spalding	MAY-SEP	6854.0	4400.0	64	82	46				
	MAY-JUL	6395.0	3980.0	62	80	44				
DWORSHAK RESERVOIR inflow	MAY-SEP	2338.0	1430.0	61	77	45				
	MAY-JUL	2157.0	1300.0	60	76	44				
SALMON at Salmon	MAY-SEP	963.0	1000.0	103	140	68				
SALMON at Whitebird	MAY-SEP	6248.0	6300.0	100	116	86				
	MAY-JUL	5583.0	5600.0	100	115	85				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
DWORSHAK	2016.0	1590.7	844.3	---

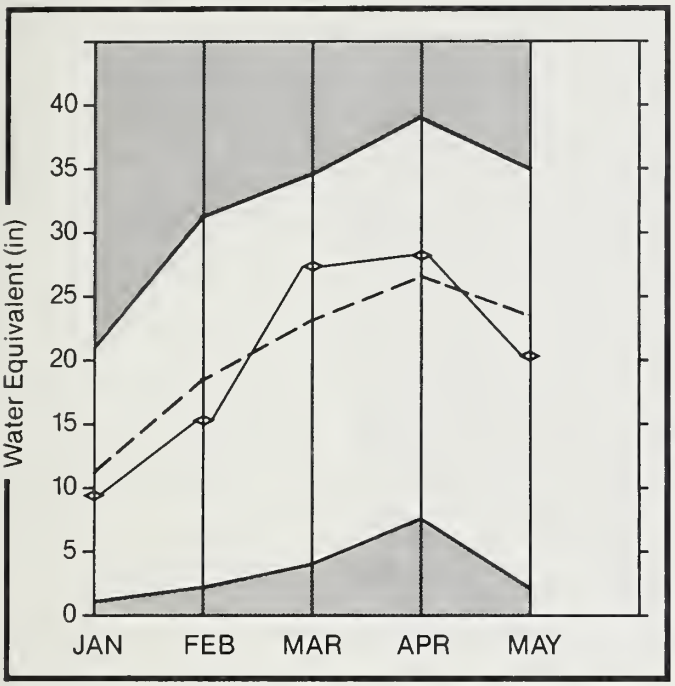
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
North Fork Clearwater	13	70	66
Lochsa River	5	80	69
Selway River	6	94	73
Clearwater River	21	77	68
Salmon River ab Salmon	5	169	110
Lemhi River	2	410	114
Salmon River Total	17	127	88

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Weiser, Payette, and Boise River Basin

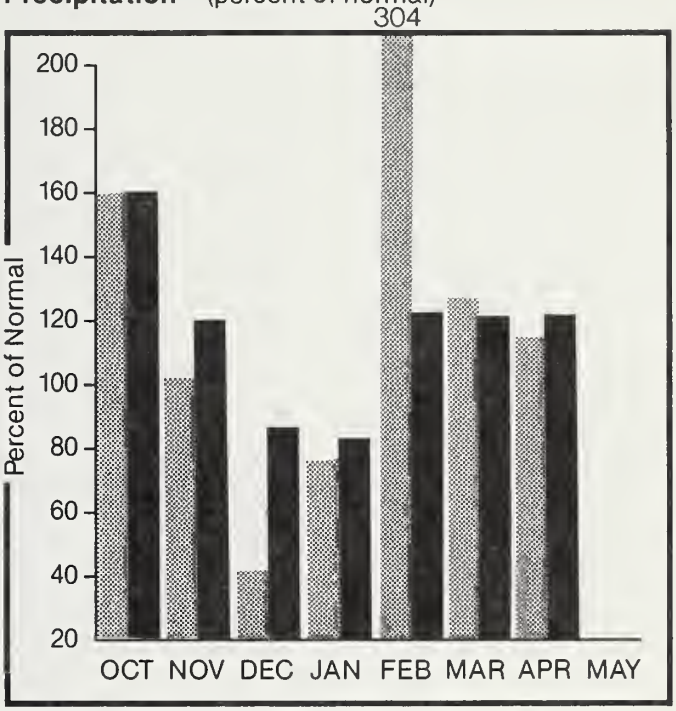
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack conditions on the Weiser are very low at only 36% of average while conditions in the remaining basins range from 68 to 119% of normal. High elevation snowpacks above 6500 feet are generally above normal, while mid-elevation packs are below to well below average. Most low elevation snowpacks below 5000 feet have completely melted. May-July streamflows are expected to range from 69% on the Weiser to 106% on the Boise near Boise.

For more information contact your local Soil Conservation Service office.

WEISER, PAYETTE AND BOISE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
WEISER at Weiser	MAY-JUL	263.0	184.0	69	118	22				
PAYETTE nr Horseshoe *	MAY-SEP	1504.2	1210.0	80	97	63				
	MAY-JUL	1366.6	1100.0	80	97	64				
NF PAYETT at Cascade *	MAY-SEP	466.2	317.0	67	84	52				
	MAY-JUL	430.6	293.0	68	84	52				
NF PAYETTE nr Banks *	MAY-SEP	581.3	395.0	67	87	49				
	MAY-JUL	540.3	367.0	67	87	49				
SF PAYETTE at Lowman	MAY-SEP	444.4	373.0	83	102	66				
	MAY-JUL	387.8	325.0	83	102	66				
DEADWOOD RESERVOIR inflow	MAY-JUL	126.0	95.0	75	92	59				
BOISE RIVER nr Twin Springs	MAY-SEP	586.4	640.0	109	125	93				
	MAY-JUL	531.0	579.0	109	125	93				
SF BOISE AT Anderson Dam *	MAY-SEP	480.2	513.0	106	129	85				
SF BOISE at Anderson Dam *	MAY-JUL	438.8	473.0	107	130	86				
BOISE RIVER nr Boise *	MAY-SEP	1247.8	1330.0	106	131	83				
	MAY-JUL	1130.0	1200.0	106	130	82				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
MANN CREEK	11.1	11.1	10.9	---
CASCADE	653.2	443.0	489.0	340.5
DEADWOOD	161.9	138.6	135.6	94.2
ANDERSON RANCH	423.2	406.2	352.3	284.6
ARROWROCK	286.6	196.2	246.5	218.4
LUCKY PEAK	278.2	202.8	214.3	147.5
LAKE LOWELL (DEER FLAT)	169.0	159.6	145.9	153.0

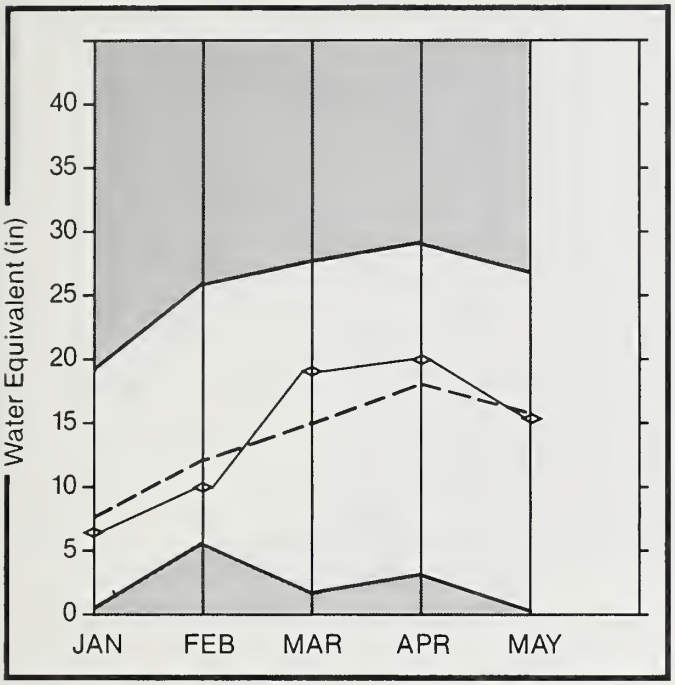
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
Mann Creek	0	0	0
Weiser River	4	94	59
North Fork Payette	9	94	71
South Fork Payette	6	127	84
Payette River Total	15	105	76
Middle & North Fork Boise	8	148	112
South Fork Boise River	6	159	119
Boise River Total	15	147	103
Canyon Creek	0	0	0

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Big Wood, Little Wood, Big Lost, and Little Lost River Basin

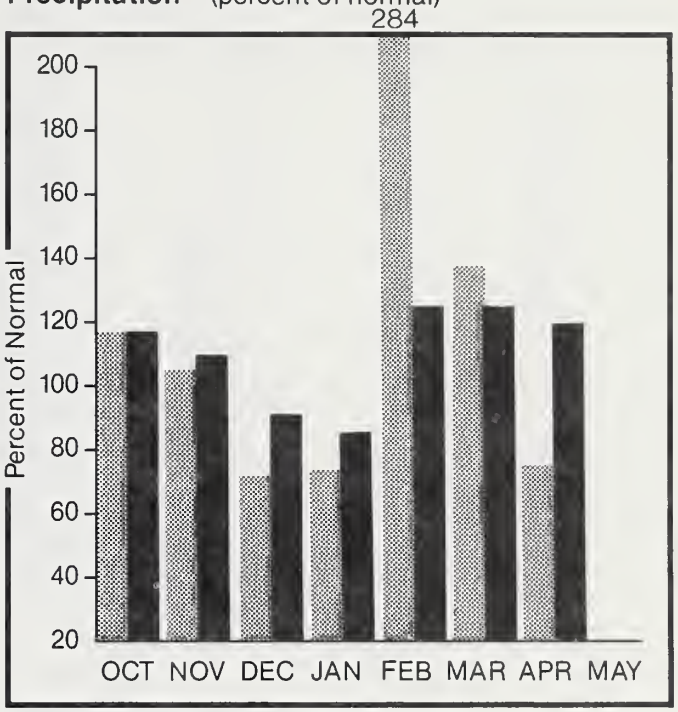
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack conditions vary from 66% of normal on the Little Lost drainage to 124% on the Big Lost watershed. Low elevation snowpacks below 6000 ft. are mostly depleted, mid-elevation packs are below normal and higher elevation packs above 7000 ft. are near or above normal. May-July streamflows are expected to range from 75% of average on the Little Lost below Wet Creek to 105% on the Big Wood near Bellevue. Peak flows on the Big Wood River could be high, depending on temperature and precipitation conditions.

For more information contact your local Soil Conservation Service office.

BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BIG WOOD nr Bellevue	MAY-SEP	167.9	175.0	104	136	72				
	MAY-JUL	154.3	162.0	104	137	73				
MAGIC RESERVOIR inflow	MAY-SEP	214.0	201.0	93	126	62				
	MAY-JUL	200.0	184.0	91	124	60				
LITTLE WOOD nr Carey	MAY-SEP	75.1	59.0	78	114	43				
	MAY-JUL	67.2	53.0	78	114	43				
BIG LOST at Howell Ranch	MAY-SEP	200.9	200.0	99	125	74				
	MAY-JUL	175.8	175.0	99	126	73				
BIG LOST nr Mackay *	MAY-SEP	172.0	172.0	99	131	69				
	MAY-JUL	140.9	140.0	99	131	68				
LITTLE LOST bl Wet Ck	MAY-SEP	35.1	26.4	75	105	45				
	MAY-JUL	27.7	20.8	74	104	43				
LITTLE LOST nr Howe	MAY-SEP	37.2	28.0	75	105	46				
	MAY-JUL	27.6	20.7	74	105	43				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
MAGIC	191.5	186.0	189.9	165.2
LITTLE WOOD	30.0	30.2	29.7	25.2
CAREY VALLEY	14.4	13.9	14.1	---
MACKAY	44.2	44.0	42.7	33.5

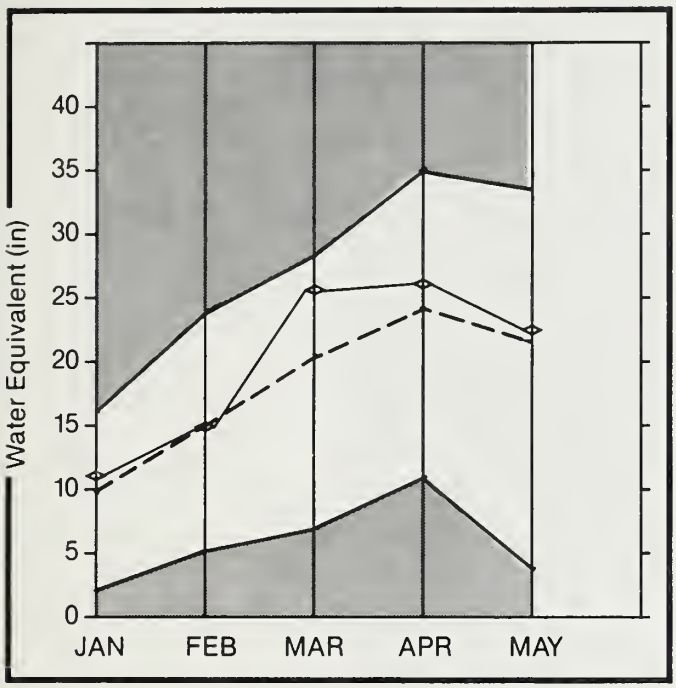
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
Big Wood ab Magic	7	202	118
Camas Creek	2	99	74
Big Wood Total	8	184	113
Little Wood River	4	223	103
Fish Creek	0	0	0
Big Lost River	5	245	124
Little Lost River	2	225	66

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Willow Creek, Blackfoot, Upper Snake, and Portneuf River Basin

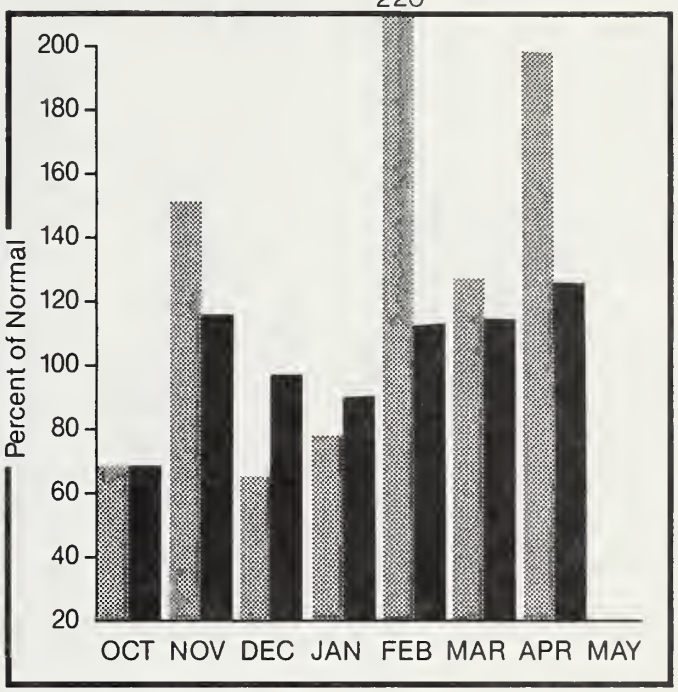
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Generally speaking, snowpacks above 6500 feet are above to well above normal while lower elevation packs are below to well below normal. Basinwide snowpack conditions remain near or above normal throughout the basin, ranging from 104% on the Henry's Fork to 123% on the Salt River in Wyoming. May-July streamflows are forecast to range from 98% on the Henry's Fork near Ashton to 130% on the Salt River drainage in Wyoming. One exception is the Portneuf which is forecast at only 80% of average.

For more information contact your local Soil Conservation Service office.

WILLOW CREEK, BLACKFOOT, UPPER SNAKE AND PORTNEUF RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
HENRY'S FORK nr Ashton *	MAY-SEP	610.1	600.0	98	123	73				
	MAY-JUL	425.1	416.0	97	123	73				
HENRYS FORK nr Rexburg *	MAY-SEP	1323.7	1300.0	98	116	80				
	MAY-JUL	1003.6	982.0	97	116	80				
FALLS RIVER nr Squirrel	APR-JUL	366.0	370.0	101	112	90				
TETON RIVER ab S Leigh Ck	MAY-SEP	172.0	175.0	101	124	80				
	MAY-JUL	123.2	125.0	101	123	80				
TETON nr St. Anthony	MAY-SEP	423.0	430.0	101	113	91				
	MAY-JUL	332.0	338.0	101	113	91				
SNAKE AT Moran *	APR-SEP	880.0	1000.0	113	123	105				
PALISADES LAKE inflow *	APR-SEP	3793.0	4540.0	119	129	111				
SNAKE nr Heise *	MAY-SEP	3723.8	4230.0	113	124	104				
	MAY-JUL	3122.2	3560.0	114	124	104				
SNAKE nr Blackfoot *	MAY-SEP	5121.0	5790.0	113	131	95				
	MAY-JUL	4051.0	4520.0	111	130	94				
PORTNEUF at Topaz	MAY-SEP	72.2	58.0	80	109	51				
	MAY-JUL	52.3	42.0	80	109	52				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
ISLAND PARK	127.0	133.1	125.8	125.5
GRASSY LAKE	15.1	14.0	13.6	11.0
JACKSON LAKE	624.4	93.9	75.2	517.6
PALISADES	1200.0	495.3	1147.6	718.5
AMERICAN FALLS	1673.0	1606.4	1558.7	1526.3
BROWNLEE	980.2	606.4	534.1	481.0

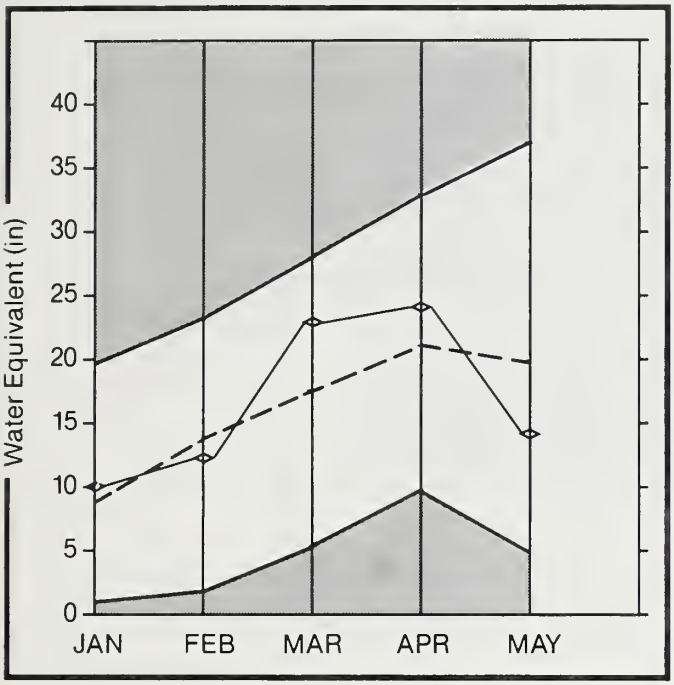
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	AVERAGE
Camas-Beaver Creeks	0	0	0
Henrys Fork River	10	136	100
Teton River	9	143	118
Snake above Palisades	15	181	122
Snake above Jackson Lake	2	141	114
Gros Ventre River	3	204	128
Greys River	2	189	122
Salt River	4	402	124
Willow Creek	9	177	73
Blackfoot River	2	230	119
Portneuf River	2	22	28
Toponce Creek	0	0	0

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Southside Snake River Basin

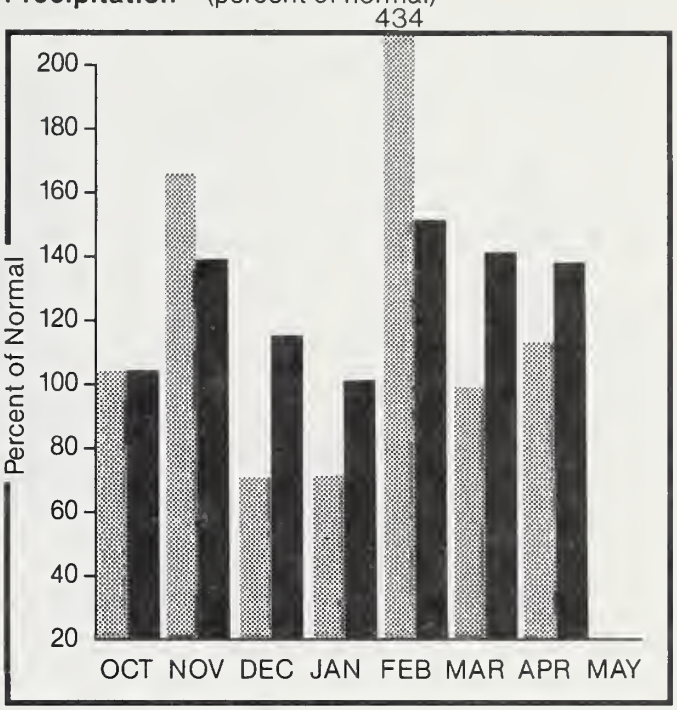
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Most middle and lower elevation snowpacks are now depleted, but most higher elevation snowpacks remain near or above normal. Basinwide snowpack figures vary from 64% of average on the Owyhee to 103% on the Goose-Trapper Creek basins. Peak streamflows have already passed and May-July volume flows are forecast to range from 70% on the Inflow to Oakley Reservoir to 90% on the Owyhee near Gold Creek.

For more information contact your local Soil Conservation Service office.

SOUTHSIDE SNAKE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
OAKLEY RESERVOIR inflow	MAY-SEP	22.8	16.1	70	105	39				
	MAY-JUL	19.8	13.9	70	101	35				
SALMON FALLS CK nr San Jacinto	MAY-SEP	60.8	43.0	70	112	30				
	MAY-JUL	56.2	39.0	69	110	28				
BRUNEAU nr Hot Springs	MAY-SEP	175.8	123.0	69	122	18				
	MAY-JUL	164.0	114.0	69	121	18				
OWYHEE RIVER nr Gold Creek *	APR-JUL	22.0	20.0	90	123	59				
OWYHEE RIVER nr Owyhee *	APR-JUL	85.4	90.0	105	136	75				
OWYHEE LAKE inflow *	MAY-SEP	212.0	207.0	97	138	58				
	MAY-JUL	187.0	181.0	96	137	57				
OWYHEE at Rome *	MAY-JUL	189.0	184.0	97	142	52				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
OAKLEY	74.4	59.9	57.6	37.9
SALMON FALLS	182.6	156.5	168.9	76.3
OWYHEE	715.0	713.9	709.9	618.4

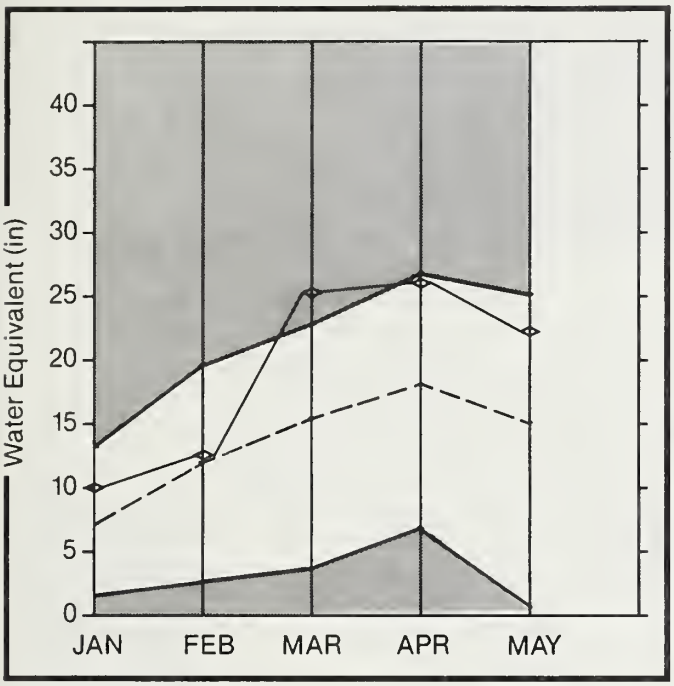
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Raft River	1	205	173
Goose-Trapper Creeks	2	119	103
Salmon Falls Creek	6	113	86
Bruneau River	5	108	84
Owyhee River	7	94	74

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

Great Basin

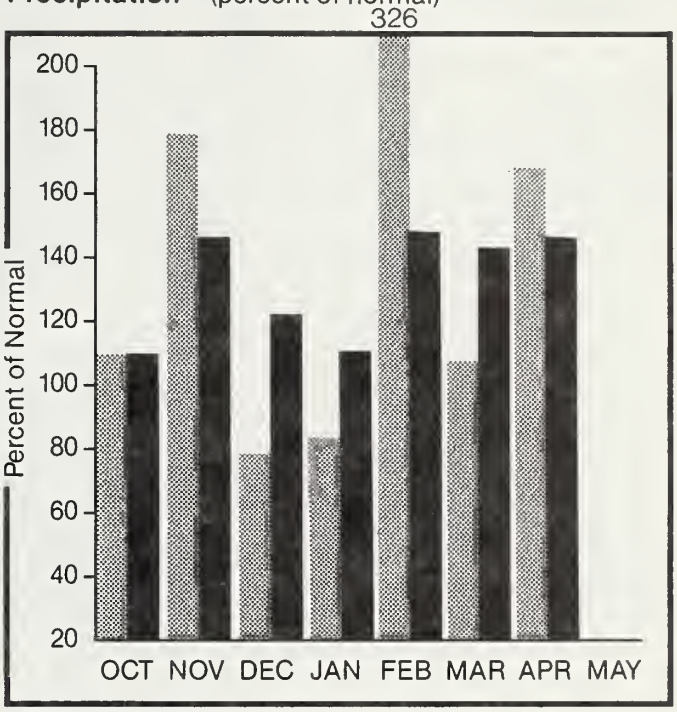
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Much above normal precipitation fell over most of the basin adding to the already above normal snowpack conditions. Snowpacks on the basins surveyed now range from 141 to 161% of average. May-July seasonal volume streamflows are expected to be near or well above normal, ranging from 117% on the Cub River near Preston to 149% on the Bear at Harer. Peak flows could be high and residents in flood potential areas should monitor streamflow conditions and be prepared to take appropriate action.

For more information contact your local Soil Conservation Service office.

GREAT BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	20 YR. AVE. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVE.)	REAS. MAX. (% AVE.)	REAS. MIN. (% AVE.)	PEAK FLOW (CFS)	PEAK DATE	LOW FLOW (CFS)	LOW DATE
BEAR at Harer	APR-SEP	310.0	463.0	149	167	131				
MONTPELIER CK nr Montpelier	MAY-SEP	11.6	15.1	129	163	94				
CUB RIVER nr Preston	MAY-SEP	47.7	55.9	116	153	82				
	MAY-JUL	42.8	50.0	116	152	82				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVE.
BEAR LAKE	1421.0	1216.2	1131.4	1054.1
MONTPELIER CREEK	4.0	2.1	---	---

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVE.D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
Bear River (above Harer)	11	215	141
Montpelier Creek	5	287	158
Mink Creek	1	241	156
Cub River	3	167	147
Malad River	0	0	0

*Corrected for upstream diversions or changes in reservoir storage.
Average is for 1961-80 period.

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State

Idaho Department of Water Resources
Oregon State Engineer and Corps of State Watermasters
Soil and Water Conservation Districts of Idaho

Federal

U.S. Department of Agriculture
Forest Service
U.S. Department of Army
Corps of Engineers
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey, Water Resources Division
Shoshone-Bannock Tribal Council

Local

Big Lost River Irrigation District
Big Wood Irrigation Company
Boise Project Board of Control
Idaho Water District #01
Lewiston Orchards Irrigation District
Little Wood River Irrigation District
North Board of Control — Owyhee Project
Salmon Falls Creek Irrigation Company
South Board of Control — Owyhee Project

Private

Cyprus Mining Company
FMC Corporation
Idaho Power Company
Le Bois Resort
Washington Water Power Company

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

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